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Class. CHANGED TO: TS S (C)
DDA Memo, 4 Apr 77
Auth: DDA REG. 77/1763
Date: 290378 By: 025

RESTRICTED

CENTRAL INTELLIGENCE GROUP

INTELLIGENCE REPORT

COUNTRY China

DATE: 25X1X6

INFO. [redacted]

SUBJECT Economic Information: Outline of City Water Supplies and Sewerages in Manchuria

DIST. 13 December 1946

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PAGES 4

SUPPLEMENT

ORIGIN [redacted]

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OUTLINE OF CITY WATER SUPPLIES IN MANCHURIA - AUGUST 1945

CITY	DISTRIBUTION OF WATER	
	Method of Distribution	Diameter of Pipe (Superior Grade Cast Iron)
Changchun	Gravity Method by Elevated Tank (1), 1200 m³; Direct Method by Pump	From 100mm to 600mm
Mukden	Gravity Method by an Elevated Tank, 1200 m³; Direct Method by Pump	From 100mm to 600mm
Harbin	Direct Method by Pump	From 100mm to 450mm
Kirin	Gravity Method by 2 Service Reservoirs, 3000m³ each	From 100mm to 500mm
Szuningchieh	Gravity Method by an Elevated Tank, 500m³	From 100mm to 300mm
Tsitsihar	Pressure Method by a Control Tank, 3000m³ Per Day	From 100mm to 300mm
Heilar	Gravity Method by a Service Reservoir, 300m³	From 100mm to 250mm
Tunghua	Gravity Method by 2 Service Reservoirs, 200m³ & 500m	From 100mm to 400mm
Chiamussu	Gravity Method by a Service Reservoir, 300m³	From 100mm to 250mm
Anshen	Gravity Method by a Service Reservoir, 3000m³	From 100mm to 600mm
Antung	Gravity Method by a Service Reservoir, 2000m³	From 100mm to 500mm
Penchihu	Gravity Method by an Elevated Tank, 500m³	From 100mm to 250mm
Yingkou	Direct Method by Pump	From 100mm to 500mm
Chinchou	Gravity Method by a Service Reservoir, 2000m³	From 100mm to 300mm
Liaoyang	Gravity Method by an Elevated Tank, 500m³	From 100mm to 300mm
Tiehling	Gravity Method by a Service Reservoir, 500m³	From 100mm to 300mm
Fushun	Gravity Method by a Service Reservoir, 300m³	From 100mm to 250mm
Chengte	Gravity Method by a Service Reservoir, 300m³	From 100mm to 250mm
Peisen	Pressure Method by a Control Tank, 500m³ Per Day; Gravity Method by a Service Reservoir, 300m³	From 100mm to 300mm
Heiho	Gravity Method by a Service Reservoir, 200m³	From 100mm to 250mm
Sunwu	Gravity Method by a Service Reservoir, 200m³	From 100mm to 250mm
Mutanchiang	Direct Method by Pump	From 100mm to 450mm
Tungning	Gravity Method by a Service Reservoir, 300m³	From 100mm to 250mm
Suiyang	Gravity Method by a Service Reservoir, 200m³	From 100mm to 200mm
Tungen	Gravity Method by a Service Reservoir, 200m³	From 100mm to 250mm
Lungching	Gravity Method by a Service Reservoir, 150m³	From 100mm to 250mm
Yunchun	Gravity Method by a Service Reservoir, 100m³	From 100mm to 250mm
Fenchi	Gravity Method by a Service Reservoir, 200m³	From 100mm to 250mm

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	DADSO		FBK		FBV		SPDS		S DEP.						
	EXO.		FBL		FBX		SPOT		CFOB						
	OPERATION		FBP		SPOR		TRS	x	[redacted]						
	CLASS	x	FBF		SPOR		TRS	x							

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OUTLINE OF CITY WATER SUPPLIES IN MANCHURIA - AUGUST 1945

CITY	ADEQUACY OF SUPPLY	WATER SOURCE	WATER SUPPLY (PROPERTIES OF WATER) RAW WATER	PURE WATER
Changchun	Ordinary	Underground Water (deep wells); River Surface Water; Impounding Reservoirs	U.G.W.-Good R.S.W.-Bad I.R.-Poor	U.G.W.-Good I.R. - Bad, owing to deficiency in treating Chemical matter R.S.W.-
Mukden	Sufficient	Underground Water (Shallow Wells)	U.G.W.-Good	U.G.W.-Good
Harbin	Ordinary	Underground Water (Deep Wells) River Surface Water	U.G.W.-Good R.S.W.-Poor	U.G.W.-Good R.S.W.-Bad
Kirin	Sufficient	Subterranean River Water (Shallow Wells) River Surface Water	S.R.W.-Good R.S.W.-Poor	S.R.W.-Poor U.G.W.-Poor
Ssupingchieh	Insufficient	Subterranean River Water (Shallow Wells)	S.R.W.-Poor	S.R.W.-Poor
Tsitsihar	Ordinary	Underground Water (Deep Wells)	U.G.W.-Poor	U.G.W.-Good
Hailar	Ordinary	Underground Water (Deep Wells)	U.G.W.-Good	U.G.W.-Good
Tunghua	Sufficient	Subterranean River Water (Shallow Wells)	S.R.W.-Good	S.R.W.-Good
Chiamussu	Ordinary	Underground Water (Shallow Wells)	U.G.W.-Poor	U.G.W.-Poor
Anshan	Sufficient			Good
Antung	Ordinary	River Surface Water	R.S.W.-Good	R.S.W.-Good
Penchihu	Ordinary			Good
Yingkou	Sufficient	Subterranean River Water	S.R.W.-Good	S.R.W.-Poor
Chinchou	Insufficient	Subterranean River Water (Shallow Wells)	S.R.W.-Good	S.R.W.-Good
Liaoyang	Excellent	Subterranean River Water (Shallow Wells)	S.R.W.-Good	S.R.W.-Good
Tiehling	Sufficient	Subterranean River Water (Shallow Wells)	S.R.W.-Good	S.R.W.-Good
Tunhua	Excellent	Subterranean River Water (Shallow Wells)	S.R.W.-Good	S.R.W.-Good
Chengte	Excellent	Subterranean River Water (Shallow Wells)	S.R.W.-Good	S.R.W.-Good
Peipiao	Insufficient	Underground Water (Deep Wells) Subterranean River Water (Shallow Wells)	U.G.W.-Poor S.R.W.-Poor	U.G.W.-Poor S.R.W.-Poor
Heiho	Ordinary	Underground Water (Deep Wells)	U.G.W.-Good	U.G.W.-Poor
Sunwu	Ordinary	Subterranean River Water (Shallow Wells)	S.R.W.-Poor	S.R.W.-Poor
Hutenchiang	Sufficient	Underground Water (D. W.) River Surface Water (Inlet)	U.G.W.-Good R.S.W.-Good	U.G.W.-Good R.S.W.-Good
Tungning	Excellent	Subterranean River Water (Shallow Wells)	S.R.W.-Very Good	S.R.W.-Very Good
Suiyang	Excellent	Sub. River Water (S. W.)	S.R.W.-Good	S.R.W.-Good
Tungan	Insufficient	Sub. River Water (S. W.)	S.R.W.-Bad	S.R.W.-Poor
Lungching	Sufficient	Sub. River Water (S. W.)	S.R.W.-Good	S.R.W.-Good
Hunchun	Ordinary	Sub. River Water (S. W.)	S.R.W.-Very Good	S.R.W.-Good
Yenchi	Insufficient	Sub. River Water (S. W.)	S.R.W.-Poor	S.R.W.-Poor

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OUTLINE OF CITY WATER SUPPLIES IN MANCHURIA

CITY	ACTUAL CAPACITY OF WATER SUPPLY; AVERAGE IN M³ PER DAY	TREATMENT AND PURIFICATION OF WATER			
		SEDIMENTATION	FILTRATION	CHLORINATION	AERATION
Changchun	70,000	Sedimentation with Coagulant	Mechanical Filters (Gravity Type) 50,000 M³ Per Day	Liquid Chlorine	
Mukden	60,000			Liquid Chlorine	Aeration Indoor
Harbin	20,000	Plain Sedimentation	Mechanical Filters (Gravity Type) 15,000 M³ Per Day	Liquid Chlorine	
Kirin	15,000		Mechanical Filters (Gravity Type) 15,000 M³ Per Day	Liquid Chlorine	
Ssupingchieh	3,000			Liquid Chlorine	
Tsitsihar	3,000		Mechanical Filters (Pressure Type) 3,000 M³ Per Day	Liquid Chlorine	
Hailar	500			Liquid Chlorine	
Tunghua	2,000			Liquid Chlorine	
Chiamussu	2,000		Mechanical Filters (Pressure Type) 2,000 M³ Per Day	Liquid Chlorine	
Anshan	12,000			Liquid Chlorine	
Antung	10,000		Mechanical Filters (Pressure Type) 5,000 M³ Per Day	Liquid Chlorine	
Penchihu	3,000				
Yingkou	12,000	Plain Sedimentation	Mechanical Filters (Gravity Type) 10,000 M³ Per Day	Liquid Chlorine	
Chinchou	5,000		Mechanical Filters (Pressure Type) 5,000 M³ Per Day	Liquid Chlorine	
Liaoyang	3,000			Liquid C.	
Tiehling	1,500			Liquid C.	
Tanhua	400			Liquid C.	
Chengte	600			Liquid C.	
Feian	1,200			Liquid C.	
Heiho	300			Liquid C.	
Sunwu	500			Liquid C.	
Mutanchiang	4,000		Mechanical Filter (Pressure Type) 3,000 M³ Per Day	Liquid C.	
Tungning	500			Liquid C.	
Suiyang	400			Liquid C.	
Tungan	1,000		Mechanical Filter (Pressure Type) 500 M³ Per Day	Liquid Chlorine	
Lungching	600			Liquid C.	
Hunchun	400			Liquid C.	
Yenchi	800		Mechanical Filter (Gravity Type) 1,000 M³ Per Day	Liquid Chlorine	

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OUTLINE OF CITY SEWERAGES IN MANCHURIA

CITY	SEWERAGE DISPOSAL PLANT (TYPE OF DRAINAGE)	METHOD OF DISPOSAL (TREATMENT)	UTILIZATION OF PUBLIC FACILITIES (DISTRIBUTION OF SEWERAGE PIPE)
Changchun	Water Carriage System (Separate System)	Dilution Method	All Main Streets, Commercial & Residential Districts, etc.
Mukden	Water Carriage System (Combined & Pump up System, & Retarding Basin)	Dilution Method	A Part of the Main District
Harbin	Water Carriage System (Mixed & Pump up System & Retarding Basin)	Dilution Method; Septic Tank in each Home	All Main Streets, Commercial, & Residential Districts, etc.
Ssupingchieh	Water Carriage System (Combined System) Conservancy System	Dilution Method	Commercial & Residential Districts
Tsitsihar	Water Carriage System (Combined System & Retarding Basin) Conservancy System	Dilution Method	Main Streets
Chiamussu	Water Carriage System (Combined System) Conservancy System	Dilution Method	Commercial & Residential Districts
Anshan	Water Carriage System (Combined System) Conservancy System	Dilution Method	Commercial & Residential Districts
Antung	Water Carriage System (Combined System) Conservancy System	Dilution Method	Commercial & Residential Districts
Penchihu	Water Carriage System (Combined System) Conservancy System	Dilution Method	Commercial & Residential Districts
Yingkou	Water Carriage System (Combined System) Conservancy System	Dilution Method	Commercial & Residential Districts
Chinchou	Water Carriage System (Combined System) Conservancy System	Dilution Method	Commercial & Residential Districts
Liaoyang	Water Carriage System (Combined System) Conservancy System	Dilution Method	Commercial & Residential Districts
Tiehling	Water Carriage System (Combined System) Conservancy System	Dilution Method	Commercial & Residential Districts
Mutanchiang	Water Carriage System (Combined System & Retarding Basin)	Dilution Method	Commercial & Residential Districts

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